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**VTR (04-315805**

**Publication Number:** JP 4315805 A), November 06, 1992

**Inventors:**

- HASEGAWA SHINICHI

**Applicants**

- SONY CORP (A Japanese Company or Corporation), JP (Japan)

**Application Number:** 03-082601 (JP 9182601) , April 15, 1991

**International Class (IPC Edition 5):**

- G11B-005/02
- G11B-005/53

**JAPIO Class:**

- 42.5 (ELECTRONICS--- Equipment)

**JAPIO Keywords:**

- R011 (LIQUID CRYSTALS)
- R101 (APPLIED ELECTRONICS--- Video Tape Recorders, VTR)

**Abstract:**

**PURPOSE:** To enable correct recording and reproducing even when head cloggin occurs during the recording or reproducing with a VTR.

**CONSTITUTION:** In a VTR provided with at least two pairs of magnetic heads for recording and reproducing a video signal consisting of a first pair (magnetic heads 3 and 4) and a second pair (magnetic heads 5 and 6), when abnormality occurs in the recording or regenerating of the video signal with the first pair of magnetic heads, the switching is performed so that the recording or regenerating of the video signal can be performed with the second pair of magnetic heads. (From: *Patent Abstracts of Japan*, Section: P, Section No. 1507, Vol. 17, No. 143, Pg. 29, March 23, 1993 )

**JAPIO**

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**NONPNEUMATIC WHEEL (03-082601**

**Publication Number:** JP 3082601 A , April 08, 1991

**Inventors:**

- NIBU HIKARI

**Applicants**

- BRIDGESTONE CORP (A Japanese Company or Corporation), JP (Japan)

**Application Number:** 01-219438 (JP 89219438) , August 25, 1989

**International Class (IPC Edition 5):**

- B60C-007/00
- B60C-017/06

**JAPIO Class:**

- 26.2 (TRANSPORTATION--- Motor Vehicles)

**Abstract:**

**PURPOSE:** To make a wheel lightweight without impairing the vibration absorbing property or the like by continuously arranging a support member made of an elastic member and intersecting the equatorial plane of the wheel multiple times in the peripheral direction of the wheel on the inner periphery side of an outside member cylindrically formed with an elastic material as a whole.

**CONSTITUTION:** A nonpneumatic wheel 10 is fixed to a rim 12 put in contact with its inner periphery side and is utilized as a spare wheel. The outer periphery section of the nonpneumatic wheel 10 is made of an outside member 14 cylindrically formed with a hard polymer elastic member as a whole, for example. A support member 16 made of the same material is arranged on the inner periphery side of the outside member 14. The outer end section 16A of the support member 16 is connected to the inner periphery side 14A of the outside member 14. The support member 16 is continued in the peripheral direction of the wheel and intersects the equatorial plane of the wheel multiple times on the periphery. A tread 20 made of a different material is arranged on the outer periphery side of the outside member 14. (From: *Patent Abstracts of Japan*, Section: M, Section No. 1129, Vol. 15, No. 253, Pg. 84, June 27, 1991 )

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